

FLEXTOR

Guillotine Damper Design Features



Flextor offers a complete line of heavy-duty guillotine dampers to meet your requirements. We have installed dampers in ducting sizes as large as 25' high by 16' wide. Our zero-leakage designs have been hydro-tested as high as 3 PSI and hydro tested at 60 PSI for structural integrity.

Rack and Pinion design At the heart of the Flextor guillotine damper is a proven and robust Rack & Pinion design. Compared to older designs such as chains, the Rack & Pinion design is competitive in terms of cost, but far superior in terms of reliability. We design our guillotine dampers with one or two racks, depending on the application. Oversize motors and precise seat materials ensure a reliable and smooth operation of the guillotine blade throughout its full stroke.

Heavy-duty Engineered Blades and Housing Careful selection of blade and housing materials to meet the specific needs of your application will provide maximal resistance to heat stresses, corrosion, metal fatigue and distortion. Flextor has proven reliable designs in some of the most demanding thermal environments such as the Gas Turbine outlet, and high corrosion environments such as coal fired power plants.

Sealing design Our High-Flex seats offer very tight shut-off, as much as 99.9 percent of flow, without the use of seal air fans. For critical applications, Flextor has proven designs which use seal air fans, fully enclosed bonnets and pressurized seals. Total isolation on even very high temperature applications can be achieved, let us tell you how.

Modular design All Flextor guillotine dampers are designed to be shipped in compact modules. Depending on size, one-piece, two-piece and three-piece designs are used so that minimal field assembly is required prior to start-up. All our dampers are fully assembled and tested in our facility, and then dis-assembled for shipment.

Optional features include structural blades for high pressure or high temperature requirements, inspection ports and view-ports for high dust loading applications, and Insulated blades for applications where heat retention or protection from thermal distortion are necessary.



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CANADIAN WELDING BUREAU
BUREAU CANADIEN DE SOUDAGE

Flextor installations

Flextor guillotine dampers have been installed in precipitator isolation, coal fired power plants, HRSG, Gas Turbine, Waste Heat recovery, Cement plants, Pulp & Paper plants, and many other demanding Process Industries worldwide.

All our guillotine dampers are designed, assembled and tested by our highly qualified staff.

The Flextor commitment

Guillotine dampers can be complex and present significant mechanical challenges. Let us use our knowledge and experience to design a reliable guillotine damper for your application. From engineering through to startup, Flextor maintains detailed scheduling and monitoring to ensure that our products are complete, reliable and delivered on-time.

Let us share our expertise with you to configure guillotine dampers tough enough to withstand your harsh environment.

Flextor products & services

Engineers and users around the globe have put their confidence in Flextor for their critical applications. Our products and services include;

- A full range of industrial dampers
- A full range of non-metallic expansion joints
- Planning & Engineering
- CFD analysis
- Finite element analysis
- Installation and supervision
- Commissioning
- Service and maintenance